

|   |        |  |   |                  |
|---|--------|--|---|------------------|
| - | 0      | (((((threadlike or threadlike) with struct\$4) ) same (((imag\$4) same ((extract\$4 or obtain\$3 or retri\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (bidirection\$3 or (back near track\$4) or (back))) ) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2003/10/20 17:32 |
| - | 0      | (((((threadlike or threadlike) with struct\$4) ) and (((imag\$4) same ((extract\$4 or obtain\$3 or retri\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (bidirection\$3 or (back near track\$4) or (back))) )  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2003/10/20 17:32 |
| - | 596    | 382/156  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:09 |
| - | 365    | 382/157  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:09 |
| - | 242    | 382/158  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:09 |
| - | 7247   | markov\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:09 |
| - | 894351 | (edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 16:17 |
| - | 9026   | ((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 16:18 |
| - | 161    | (((((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) ) same (grid\$4 grat\$4 mesh\$4)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:25 |
| - | 145    | (((((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) ) same (front\$2 and back\$5)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 16:18 |
| - | 0      | 382/156 and (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) ) same (front\$2 and back\$5))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:26 |
| - | 0      | 382/157 and (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) ) same (front\$2 and back\$5))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:27 |

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|---|------|---|---|------------------|
| - | 0    | 382/158 and (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) ) same (front\$2 and back\$5))                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:27 |
| - | 0    | 382/158 and (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) )   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:27 |
| - | 2    | 382/157 and (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) )   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:27 |
| - | 5    | 382/156 and (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) )   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 15:27 |
| - | 0    | (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) ) same (front\$2 and back\$5)) and (best\$3 near path\$3) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 16:17 |
| - | 3608 | (edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3) near4 (best\$3 good)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 16:17 |
| - | 0    | (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) near4 (best\$3 good)) same ((start\$3 or end\$3) near3 (point\$3)) ) same (front\$2 and back\$5)       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 16:18 |
| - | 59   | (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) same ((start\$3 or end\$3) near3 (point\$3)) ) same (front\$2 and back\$5)) and (best\$3)              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 16:19 |
| - | 20   | ((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3) near4 (best\$3 good)) same ((start\$3 or end\$3) near3 (point\$3))                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 16:19 |
| - | 4    | (((edge\$4 boundr\$4 curv\$4 path\$3 tree\$1 structur\$3) near4 (track\$4 detect\$4 locat\$4 follow\$4 sens\$4 measur\$5 read\$3)) near4 (best\$3 good)) same ((start\$3 or end\$3) near3 (point\$3)) ) and (front\$2 and back\$5)        | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB | 2004/03/02 16:19 |

| L Number | Hits   | Search Text  | DB  | Time stamp       |
|----------|--------|--|---|------------------|
| 4        | 27     | 5067166.URPN.  | USPAT   | 2004/03/03 11:09 |
| -        | 0      | filiation near2 front near2 march\$4 near2 technique   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2004/03/02 15:09 |
| -        | 1      | filiation near2 front near2 march\$4 near2 technique   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/17 16:27 |
| -        | 5      | threadlike near4 structure same imag\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/17 16:27 |
| -        | 4      | ((extract\$4 or obtain\$4 or pull\$3 or gather\$3) near3 (point\$3 or featur\$3)) same ((threadlike or thread\$like) near struct\$4) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/18 12:21 |
| -        | 457    | ((threadlike or thread\$like) with struct\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:31 |
| -        | 248    | ((threadlike or thread\$like) near struct\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/18 12:24 |
| -        | 1      | (((((threadlike or thread\$like) near struct\$4)) same (parent\$3 or child\$5 or ancestor\$3 or father\$3)                           | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/18 12:26 |
| -        | 0      | (((((threadlike or thread\$like) near struct\$4)) same (calculat\$4 near3 intens\$5)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/18 12:27 |
| -        | 9      | (((((threadlike or thread\$like) near struct\$4)) same (intens\$5)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/18 14:53 |
| -        | 186975 | (edge\$4 or boundr\$4 or curv\$4) near4 (detect\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)                                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/18 15:26 |

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|---|--------|--|---|------------------|
| - | 1545   | ((edge\$4 or boundr\$4 or curv\$4) near4 (detect\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (vessel\$3 or \$3medical\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/18 15:24 |
| - | 15     | ((edge\$4 or boundr\$4 or curv\$4) near4 (detect\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (vessel\$3 or \$3medical\$3) ) same ((start\$3 or end\$3) near3 (point\$3))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/03/02 15:22 |
| - | 521878 | (edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/03/02 15:18 |
| - | 8590   | ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (x\$ray or vessel\$3 or medical\$3 or biomedical\$3)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/18 16:16 |
| - | 10     | ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (x\$ray or vessel\$3 or medical\$3 or biomedical\$3) ) same ((start\$3 and end\$3) with (point\$3))                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 10:06 |
| - | 13     | ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (x\$ray or vessel\$3 or medical\$3 or biomedical\$3) ) same ((grid\$4 or grat\$4 or mesh\$4) with (point\$3))                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/03/02 15:23 |
| - | 97     | ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (x\$ray or vessel\$3 or medical\$3 or biomedical\$3)) same (kernal or matri\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 13:31 |
| - | 2      | ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (x\$ray or vessel\$3 or medical\$3 or biomedical\$3)) same ((kernal or matri\$4) near4 (vertical or horizontal or adjacent)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 10:25 |
| - | 83     | ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (x\$ray or ((blood or brain)near4 vessel\$3) or medical\$3 or biomedical\$3)) same (kernel\$3 or matri\$4)                   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 09:31 |
| - | 32050  | (imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 13:29 |

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|---|------|--|---|------------------|
| - | 123  | ((imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((change\$4 or vary\$3 or variable or modify\$3 or alter\$5) near3 (intensit\$4))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 13:36 |
| - | 1259 | ((imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 15:22 |
| - | 4    | ((imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same ((change\$4 or vary\$3 or variable or modify\$3 or alter\$5) near3 (intensit\$4)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 14:03 |
| - | 351  | 382/197.ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:30 |
| - | 435  | 382/202.ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 15:11 |
| - | 229  | 382/226.ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 15:16 |
| - | 974  | 382/197.ccls. or 382/202.ccls. or 382/226.ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 15:16 |
| - | 142  | (382/197.ccls. or 382/202.ccls. or 382/226.ccls.) and ((path\$4 or edge\$3 or curv\$4 or boundr\$4) near4 (detect\$4 or follow\$4 or track\$4 or extract\$4))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/21 16:02 |
| - | 73   | ((imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (bidirection\$3 or (back near track\$4) or (back))                                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:30 |
| - | 51   | ((382/197.ccls. or 382/202.ccls. or 382/226.ccls.) and ((path\$4 or edge\$3 or curv\$4 or boundr\$4) near4 (detect\$4 or follow\$4 or track\$4 or extract\$4)) and (bidirection\$3 or (back near track\$4) or (back))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 11:11 |
| - | 1763 | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) same ((blood near4 vessel\$3) or medical\$3 or biomedical\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 09:44 |

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|---|-----|--|---|------------------|
| - | 727 | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) with ((blood near4 vessel\$3) or medical\$3 or biomedical\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:06 |
| - | 591 | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) with ((blood near2 vessel\$3) or medical\$3 or biomedical\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 16:23 |
| - | 553 | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or measur\$5)) with ((blood near2 vessel\$3) or medical\$3 or biomedical\$3)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 11:25 |
| - | 10  | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or measur\$5)) with ((blood near2 vessel\$3) or medical\$3 or biomedical\$3) ) same (bidirection\$3 or (back near track\$4) or (back)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 11:17 |
| - | 424 | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or measur\$5)) with ((blood near2 vessel\$3) or medical\$3 or biomedical\$3) ) and (@ad<=19990604 or @rlad)                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/04/22 12:32 |
| - | 0   | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) with ((blood near2 vessel\$3) or medical\$3 or biomedical\$3) ) same (grid\$4 and point\$3)                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/04/22 12:33 |
| - | 0   | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) with ((blood near2 vessel\$3) or medical\$3 or biomedical\$3) ) same (grid\$4)                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/04/22 12:34 |
| - | 44  | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) with ((blood near2 vessel\$3) or medical\$3 or biomedical\$3) ) same (point\$3)                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/04/22 12:35 |
| - | 1   | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) with ((blood near2 vessel\$3) or medical\$3 or biomedical\$3) ) same (cost\$4)                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:06 |
| - | 25  | ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) same ((blood near2 vessel\$3) or medical\$3 or biomedical\$3) ) same (cost\$4)                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:40 |
| - | 798 | 382/128.ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/04/22 17:38 |

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| - | 258 | 382/128.ccls. and ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:40 |
| - | 177 | (382/128.ccls. and ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) ) and ((blood near2 vessel\$3) or medical\$3 or biomedical\$3)                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:44 |
| - | 67  | ((382/128.ccls. and ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) ) and ((blood near2 vessel\$3) or medical\$3 or biomedical\$3)) and (cost\$4) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:42 |
| - | 174 | ((382/128.ccls. and ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) ) and ((blood near2 vessel\$3) or medical\$3 or biomedical\$3)) and (back\$6) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:43 |
| - | 36  | (382/128.ccls. and ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) ) and (blood near2 vessel\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:45 |
| - | 57  | (382/128.ccls. and ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) ) and ((start or end) near3 point\$2)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:46 |
| - | 27  | ((382/128.ccls. and ((edge\$4 or boundar\$4 or contour\$4 or path\$3) near3 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5)) ) and ((start or end) near3 point\$2)) and (back\$5)                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22 17:47 |
| - | 354 | 382/197.ccls.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:30 |
| - | 440 | 382/202.ccls.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:30 |
| - | 238 | 382/226.ccls.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:30 |

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|---|-----|--|--|---|------------------|
| - | 929 | 382/128.ccls.  |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:30 |
| - | 86  | ((imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$5 or read\$3)) same (bidirection\$3 or (back near track\$4) or (back))                                   |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:31 |
| - | 517 | ((threadlike or thread\$like) with struct\$4)  |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:31 |
| - | 0   | 382/197.ccls. and (((threadlike or thread\$like) with struct\$4) )   |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/10/20 17:32 |
| - | 0   | 382/202.ccls. and (((threadlike or thread\$like) with struct\$4) )   |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/10/20 17:32 |
| - | 0   | 382/226.ccls. and (((threadlike or thread\$like) with struct\$4) )   |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/10/20 17:32 |
| - | 2   | 382/128.ccls. and (((threadlike or thread\$like) with struct\$4) )   |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/10/20 17:32 |
| - | 0   | 382/197.ccls. and (((imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (bidirection\$3 or (back near track\$4) or (back)) ) |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/10/20 17:32 |
| - | 0   | 382/202.ccls. and (((imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (bidirection\$3 or (back near track\$4) or (back)) ) |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/10/20 17:32 |
| - | 1   | 382/226.ccls. and (((imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (bidirection\$3 or (back near track\$4) or (back)) ) |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/10/20 17:32 |
| - | 1   | 382/128.ccls. and (((imag\$4) same ((extract\$4 or obtain\$3 or retriv\$4 or sens\$3) near4 (point\$2 or pattern\$3))) same ((edge\$4 or boundr\$4 or curv\$4 or path\$3) near4 (track\$4 or detect\$4 or locat\$4 or follow\$4 or sens\$4 or measur\$5 or read\$3)) same (bidirection\$3 or (back near track\$4) or (back)) ) |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>IBM_TDB             | 2003/10/20 17:32 |